**What's Hot, What's Not**

**Group 2 IV - Quasar**

**Timeline**

|  |  |  |  |
| --- | --- | --- | --- |
| Tasks | Start | End | Member/s in Charge |
| Interview with a SET teacher | 08/10/10 | 08/12/10 | Katrina Bea Inocian |
|  |  |  | Abdul Razzaq Abantas |
|  |  |  |  |
| Survey | 08/10/10 | 08/12/10 | Tricia Grace Buna |
|  |  |  | April Mae Jurial |
|  |  |  |  |
| Collecting of data (final) | 08/12/10 | 08/13/10 | Katrina Bea Inocian |
|  |  |  | April Mae Jurial |
|  |  |  |  |
| Lay-out design | 08/13/10 | 08/14/10 | Tricia Grace Buna |
|  |  |  |  |
| Final product | 08/14/10 | 08/16/10 | All members |

**Interview for Experts**

1. How long have you been teaching in SET?

2. What problems in internal combustion engines do you commonly give to your students? How are these

problems solved?

3. As a professional in this field, what models (3) of a particular brand of automobile do you recommend

to buyers? Why (reasons) ?

\*Used car or new? \*Insurance costs

\*Safety aspects \*Make or model

\*Reliability \*Manual or automatic

\*Fuel economy concerns \*Gas or diesel

\*Considering environmental impacts \*4 cylinder or V6

\*Depreciation factor \*Do you need ABS

4. How does Honda coordinate its fuel efficiency without compromising the performance (factors) of its

automobiles?

5. What is a turbocharger or turbo? How can it affect the performance of an automobile?

6. What are the principles (strategies) behind using the following substitutes of gasoline and diesel in

automobiles?

\*water

\*LPG

\*Electricity

7. With the principles (strategies) mentioned above, what do you think is the best alternative?

**Survey for Users**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Residence: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Age: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How many automobiles do you have?

2. What model/s do you have?

Please supply the following details:

|  |  |  |  |
| --- | --- | --- | --- |
| Brand | Model | Date of Purchase | Cost of Purchase |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |

3. How many times have you had your automobile/s repaired?

|  |  |  |
| --- | --- | --- |
| Brand | Model | No. of times repaired |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

4. What are the common problems do you encounter with your automobiles?

|  |  |  |
| --- | --- | --- |
| Brand | Model | Problems |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

5. What feature/s of the model/s do you particularly like?

|  |  |  |
| --- | --- | --- |
| Brand | Model | Features |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

\*Please indicate the best model you have: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. How much do you spend for fuel maintenance?

|  |  |  |
| --- | --- | --- |
| Brand | Model | Amt. of fuel maintenance |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

\*Please indicate which of the following bases: DAILY/WEEKLY.

7. If you buy another automobile, what brand and model would it be?

**Outline**

I. What is an internal combustion engine?

1. History of invention

2. Uses of internal combustion engine

3. Types of internal combustion engine

4. Features of modern internal combustion engine

5. Taking care of the internal combustion engine

II. What science (Physics) concepts are used in an internal combustion engine?

1. First concept (with details)

2. Second concept (with details)

3. Third concept (with details)

III. On-going studies about internal combustion engine

Iv. Sources

1. Books/Journals 2. Online Sources